

IN THE CLAIMS:

1. (Currently amended) A propulsion system comprising:
 - an airflow inducement mechanism;
 - a coanda comprising a leading edge and a trailing edge;
 - a wing comprising a leading edge and a trailing edge; and
 - a base having a curved surface;

the coanda is located adjacent the airflow inducement mechanism;

the wing is located adjacent the coanda such that there is a gap between the coanda and the wing;

wherein the coanda and wing are mounted above the curved surface so that it defines a passageway between the curved surface and the wing and the coanda such that a first airflow generated by the airflow inducement mechanism flows through the passageway and induces a second airflow through the gap between the coanda and the wing, the second airflow creates a venturi in the passageway causing the velocity and density of the first airflow to increase, the second airflow creates a lift, the lift comprising lift generated by a Bernoulli principle acting on the ~~wing~~ curved surface and exits radially outward from the passageway.
2. (Original) A propulsion system as claimed in claim 1, further comprising a moveable flap attached to the trailing edge of the coanda.
3. (Original) A propulsion system as claimed in claim 2, wherein the moveable flap is comprised of a plurality of flaps.

4. (Previously presented) A propulsion system as claimed in claim 1, further comprising a moveable flap attached to the trailing edge of the wing which can redirect the second airflow downward.
5. (Original) A propulsion system as claimed in claim 4, wherein the moveable flap is comprised of a plurality of flaps.
6. (Original) A propulsion system as claimed in claim 1, further comprising a movable flap attached to the trailing edge of the curved surface.
7. (Original) A propulsion system as claimed in claim 6, wherein the moveable flap is comprised of a plurality of flaps.
8. (Original) A propulsion system as claimed in claim 1, wherein the propulsion system is attached to a wheeled conveyance.
9. (Original) A propulsion system as claimed in claim 1, wherein the propulsion system is attached to a watercraft.
10. (Original) A propulsion system as claimed in claim 1, wherein the propulsion system is attached to a hovercraft.

11. (Original) A propulsion system as claimed in claim 1, wherein the propulsion system is rotationally attached to a wheeled conveyance.
12. (Original) A propulsion system as claimed in claim 1, wherein the propulsion system is rotationally attached to a watercraft.
13. (Original) A propulsion system as claimed in claim 1, wherein the propulsion system is rotationally attached to a hovercraft.
14. (Original) A propulsion system as claimed in claim 1, wherein the airflow inducement mechanism is a fan driven by an internal combustion engine.
15. (Original) A propulsion system as claimed in claim 1, wherein the airflow inducement mechanism is a fan driven by an electric motor.
16. (Original) A propulsion system as claimed in claim 1, wherein the airflow inducement mechanism is a fan driven by a hydraulic motor.
17. (Original) A propulsion system as claimed in claim 1, wherein the airflow inducement mechanism is a fan driven by a pneumatic motor.
18. (Currently amended) A propulsion system comprising:
an airflow inducement mechanism;

a coanda comprising a leading edge and a trailing edge;
a wing comprising a leading edge and a trailing edge;
a base having a curved surface with a trailing edge;
one or more flaps attached to the trailing edge of the coanda;
one or more flaps attached to the trailing edge of the wing; and
one or more flaps attached to the trailing edge of the curved surface;
wherein the coanda is located adjacent the airflow inducement mechanism;
the wing is located adjacent the coanda such that there is a gap between the coanda and the wing;

wherein the coanda and wing are mounted above the curved surface so that it defines a passageway between the curved surface and the wing and the coanda such that a first airflow generated by the airflow inducement mechanism flows through the passageway and induces a second airflow through the gap between the coanda and the wing, the second airflow creates a venturi in the passageway causing the velocity and density of the first airflow to increase, the second airflow creates a lift, the lift comprising lift generated by a Bernoulli principle acting on the ~~wing~~ curved surface and exits radially outward from the passageway, wherein the flap or flaps on the trailing edge of the wing can redirect the second airflow downward.

19. (Currently amended) A crane comprising:

a generally circular shaped body with a center and a curved surface;
the curved surface having a trailing edge;
an air flow inducement mechanism located above the curved surface at the center of the body;

a coanda extending radially outward from the center of the body and surrounding the airflow inducement mechanism and having an interior surface, an exterior surface, a trailing edge; and

a wing extending radially around the coanda and having a trailing edge;

wherein the coanda and wing are mounted above the curved surface so that it defines a passageway between the curved surface and the wing and the coanda such that a first airflow generated by the airflow inducement mechanism flows through the passageway and induces a second airflow through the gap between the coanda and the wing, the second airflow creates a venturi in the passageway causing the velocity and density of the first airflow to increase, the second airflow creates a lift, the lift comprising lift generated by a Bernoulli principle acting on the ~~wing~~ curved surface and exits radially outward from the passageway, wherein the flap or flaps on the trailing edge of the wing can redirect the second airflow downward.

20. (Original) A crane as claimed in claim 19, further comprising a moveable flap attached to the trailing edge of the coanda.

21. (Original) A crane as claimed in claim 20, wherein the moveable flap is comprised of a plurality of flaps.

22. (Original) A crane as claimed in claim 19, further comprising a moveable flap attached to the trailing edge of the wing.

23. (Original) A crane as claimed in claim 22, wherein the moveable flap is comprised of a plurality of flaps.
24. (Original) A crane as claimed in claim 19, wherein the airflow inducement mechanism is a fan driven by an internal combustion engine.
25. (Original) A crane as claimed in claim 19, wherein the airflow inducement mechanism is a fan driven by an electric motor.
26. (Original) A crane as claimed in claim 19, wherein the airflow inducement mechanism is a fan driven by a hydraulic motor.
27. (Original) A crane as claimed in claim 19, wherein the airflow inducement mechanism is a fan driven by a pneumatic motor.
28. (Original) A crane as claimed in claim 19, further comprising a moveable flap attached to the trailing edge of the curved surface.
29. (Original) A crane as claimed in claim 28, wherein the moveable flap is comprised of a plurality of flaps.
30. (Original) A crane as claimed in claim 19, further comprising a bypass between the interior surface of the coanda and the exterior surface of the coanda.

31. (Original) A crane as claimed in claim 30, further comprising a moveable gate located in the bypass.

32. (Original) A crane as claimed in claim 31, wherein the moveable gate is operated by hydraulics.

33. (Original) A crane as claimed in claim 31, wherein the moveable gate is operated by pneumatics.

34. (Original) A crane as claimed in claim 31, wherein the moveable gate is operated by a mechanical linkage.

35. (Currently amended) A crane comprising:

a generally circular shaped body with a center and a curved surface;

an air flow inducement mechanism located above the curved surface at the center of the body;

the curved surface having a trailing edge;

a coanda extending radially outward from the center of the body and surrounding the airflow inducement mechanism and having an interior surface, an exterior surface and a trailing edge;

a wing extending radially around the coanda and having a trailing edge;

one or more flaps moveable attached to the trailing edge of the coanda;

one or more flaps moveable attached to the trailing edge of the wing;
one or more flaps moveably attached to the trailing edge of the curved surface; and
a bypass between the interior surface of the coanda and the exterior surface of the coanda,
the bypass having a moveable gate;

wherein the coanda and wing are mounted above the curved surface so that it defines a passageway between the curved surface and the wing and the coanda such that a first airflow generated by the airflow inducement mechanism flows through the passageway and induces a second airflow through the gap between the coanda and the wing, the second airflow creates a venturi in the passageway causing the velocity and density of the first airflow to increase, the second airflow creates a lift, the lift comprising lift generated by a Bernoulli principle acting on the ~~wing~~ curved surface and exits radially outward from the passageway or can be directed downward by the flap or flaps on the trailing edge of the wing.